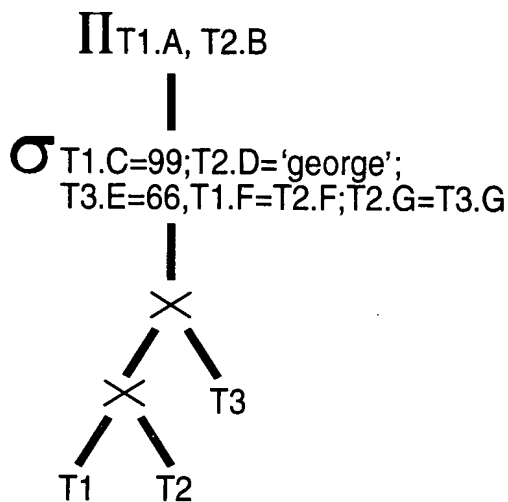


FIG. 2

Select T1.A, T2.B From T1, T2, T3
 Where T1.C=99 AND T2.D='george' AND T3.E=66
 AND T1.F=T2.F AND T2.G=T3.G

**FIG. 3**

Select T1.A, T2.B From T1, T2, T3
 Where T1.C=99 AND T2.D='george' AND T3.E=66
 AND T1.F=T2.F AND T2.G=T3.G

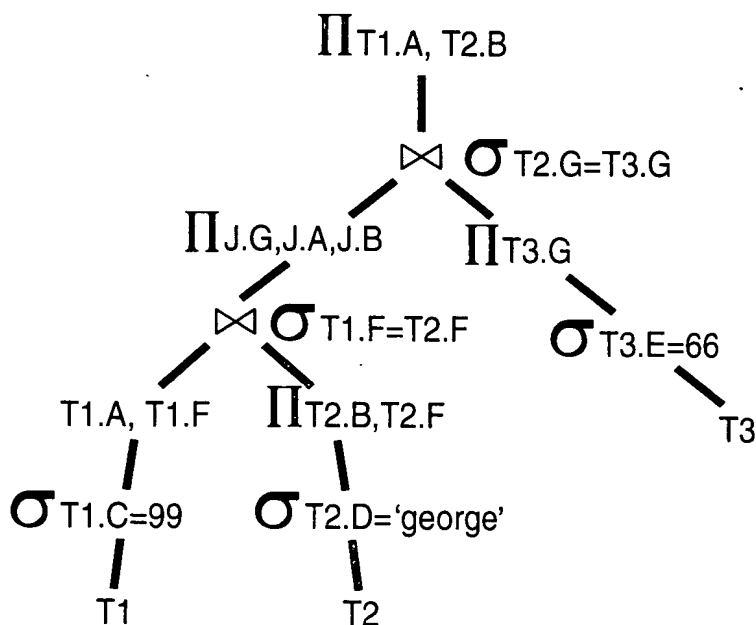


FIG. 4

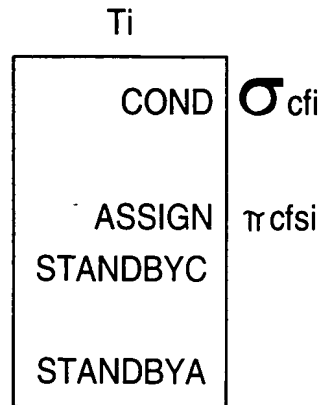


FIG. 9

Select T1.A, T2.B, T3.Video Colorize() From T1, T2, T3, T4
 Where T1.face = IMAGE(\url\myface.jpg) AND T2.D='george'
 AND T4.Audio = AUDIO (\url\georgeharrison.wav)
 AND T1.F=T2.F AND T2.G=T3.G AND T1.H=T4.H
 AND T2.K=T4.K

Π T1.A, T2.B, T3.Video.Colorize()

σ T1.face=IMAGE(\url\myface.jpg); T2D='george';
 T4.Audio=AUDIO (\url\georgeharrison.wav);
 T1.F=T2.F; T2.G=T3.G; T1.H=T4.H; T2.K=T4.K

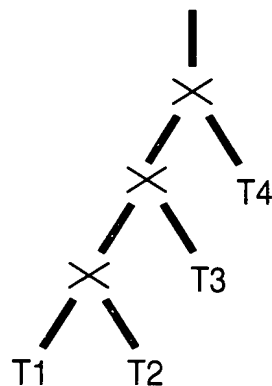


FIG. 5

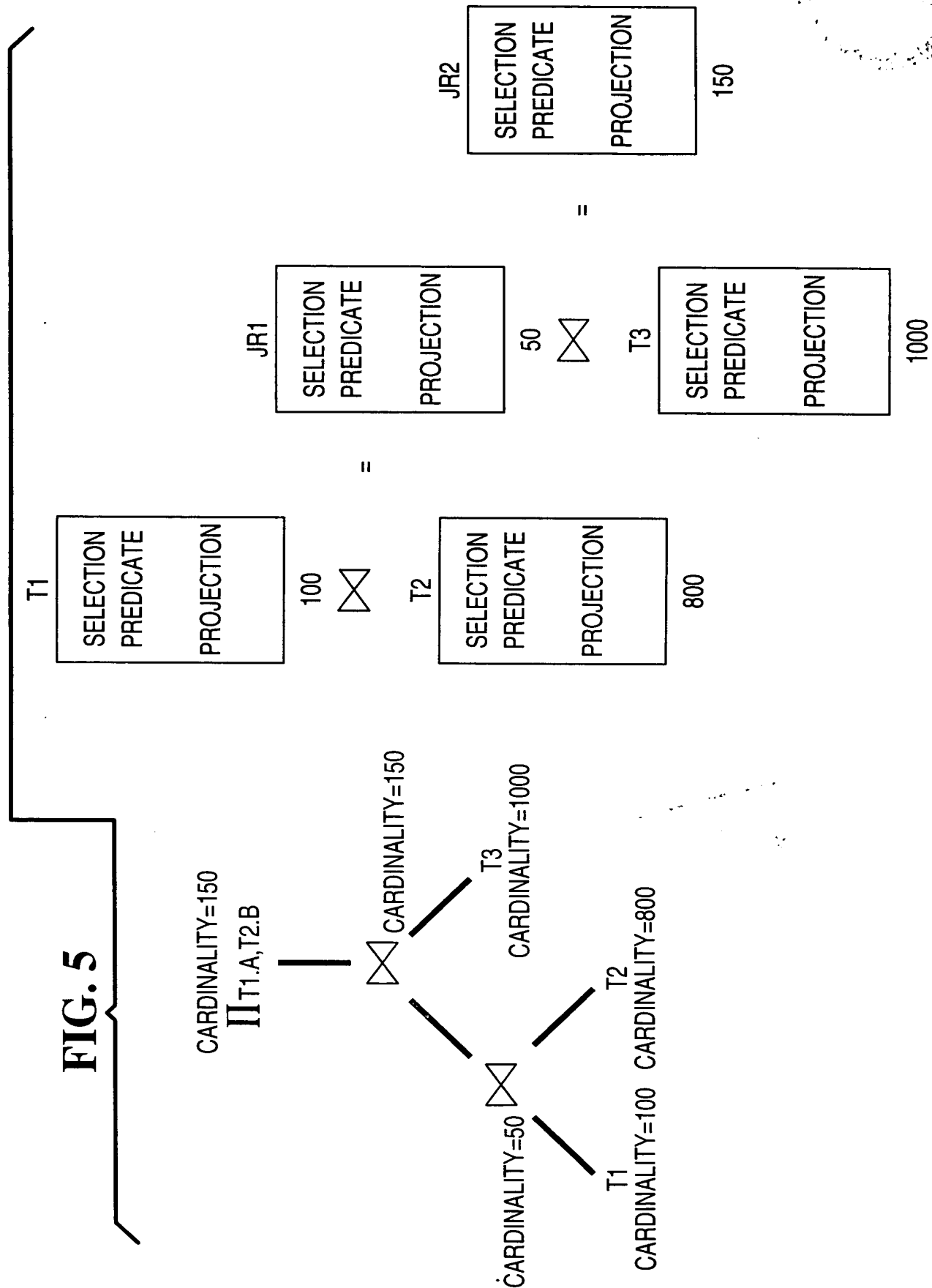


FIG. 6

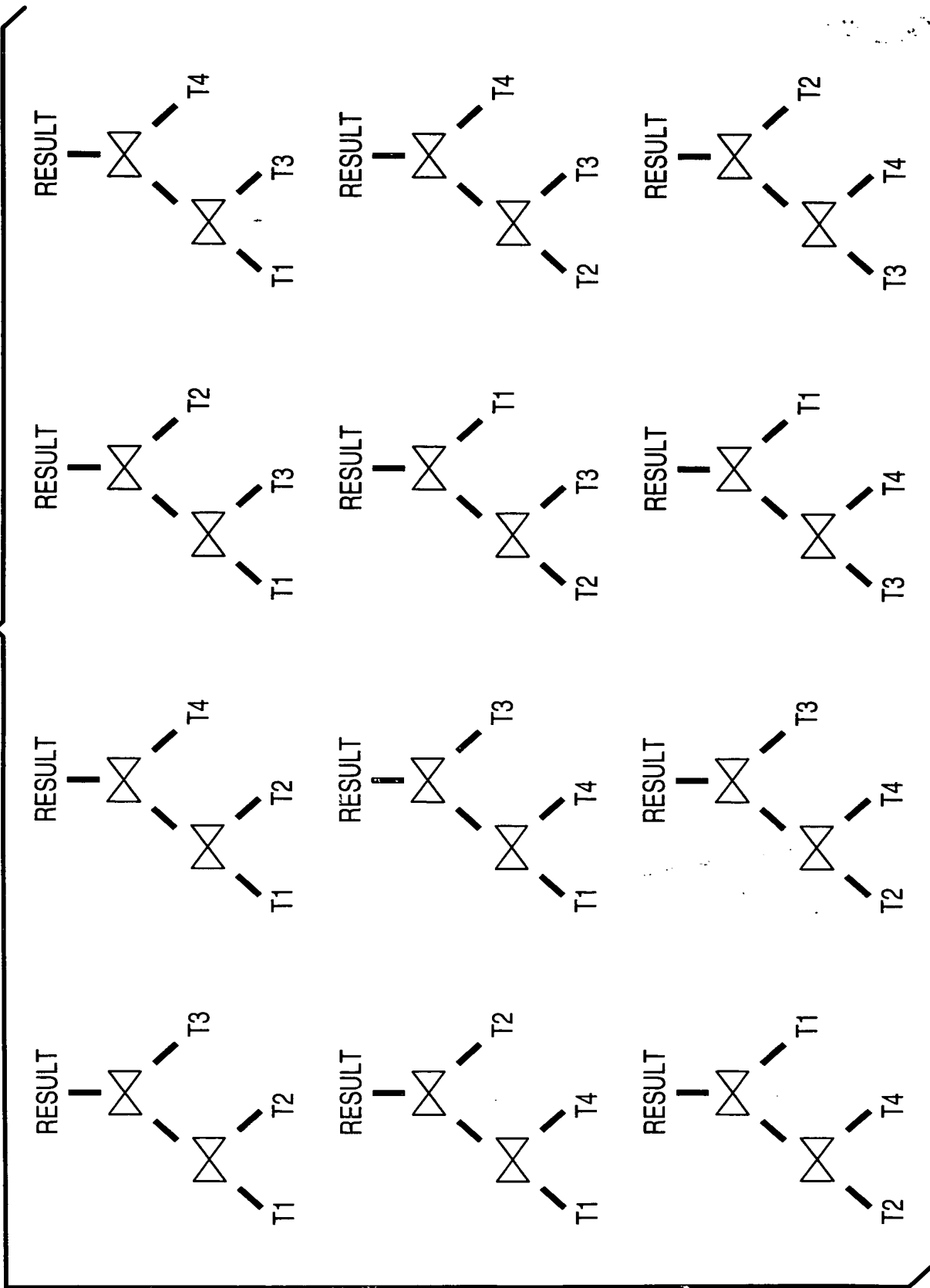


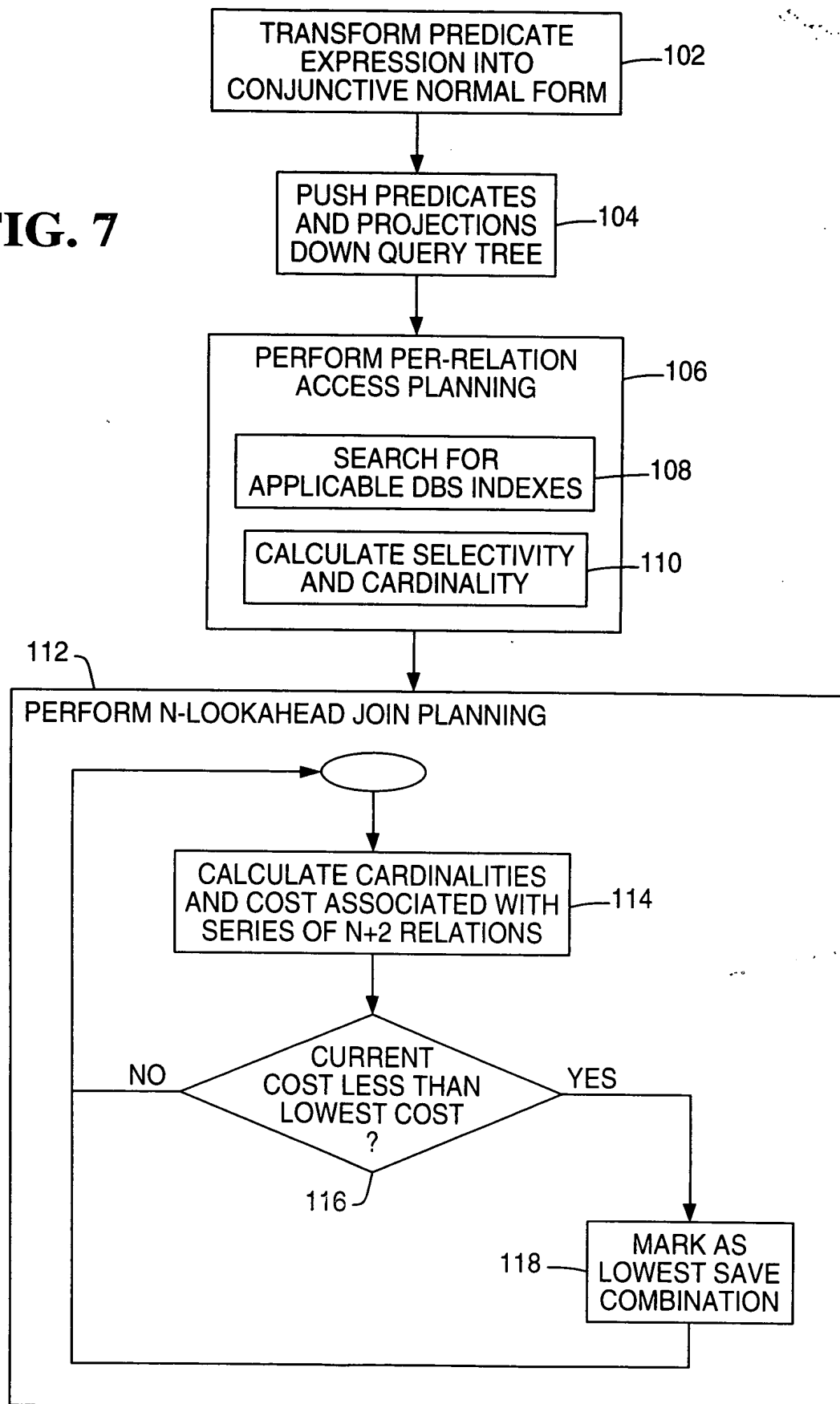
FIG. 7

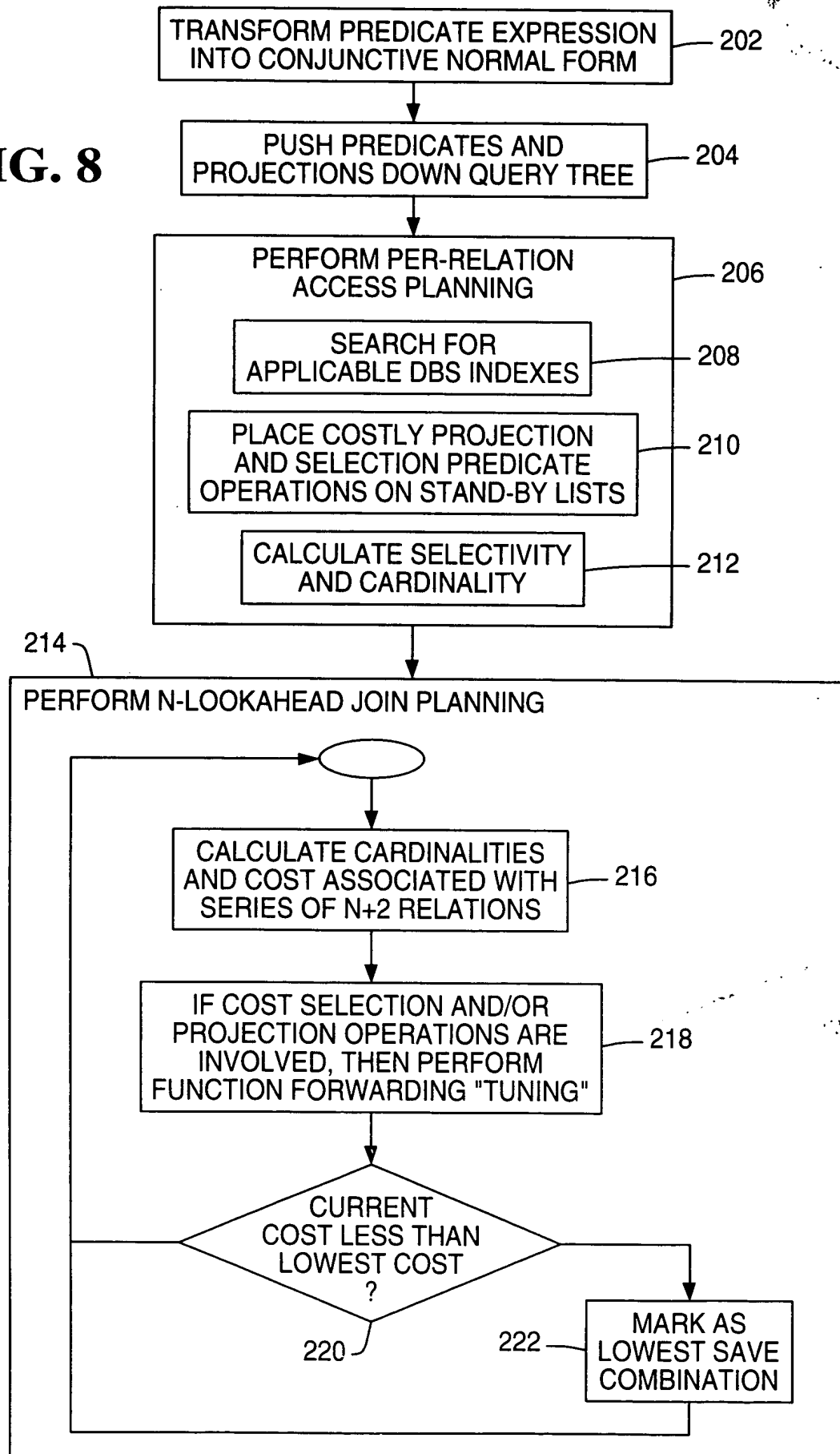
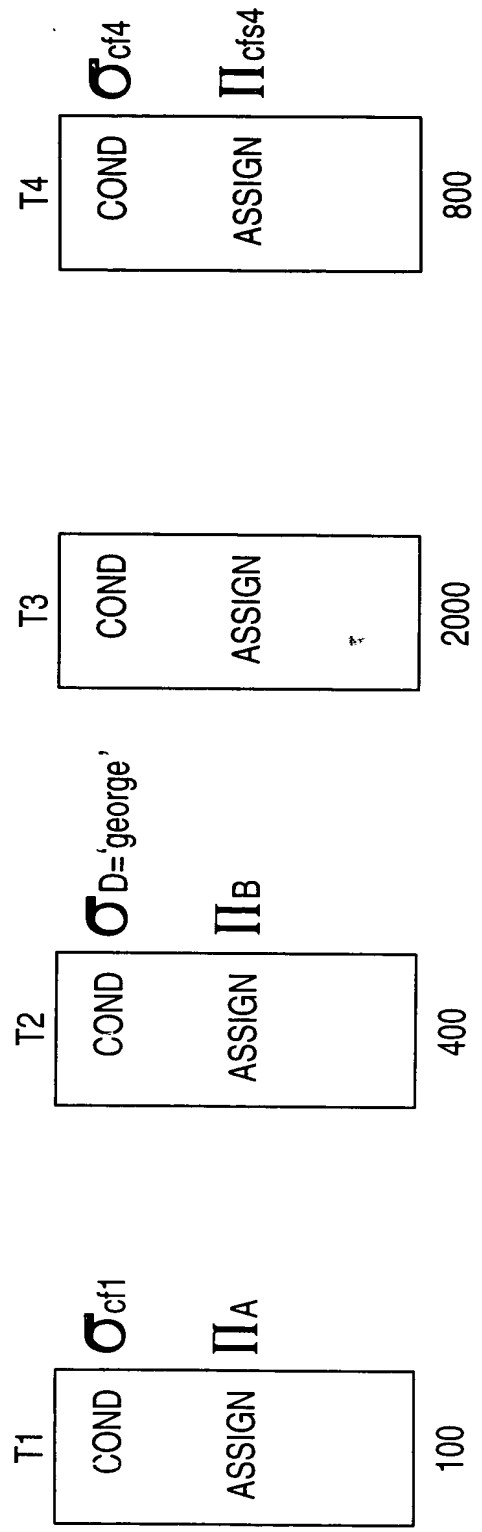
FIG. 8

FIG. 10

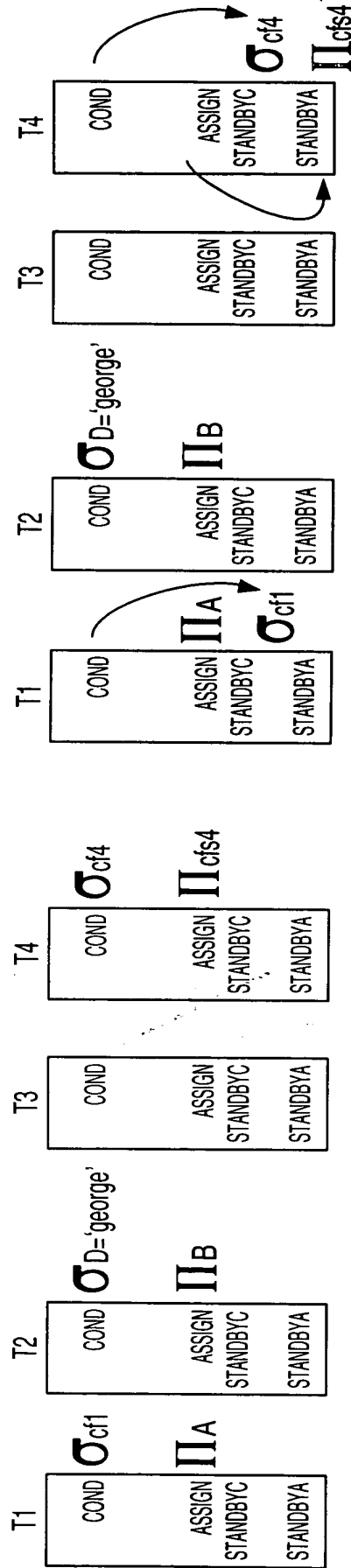
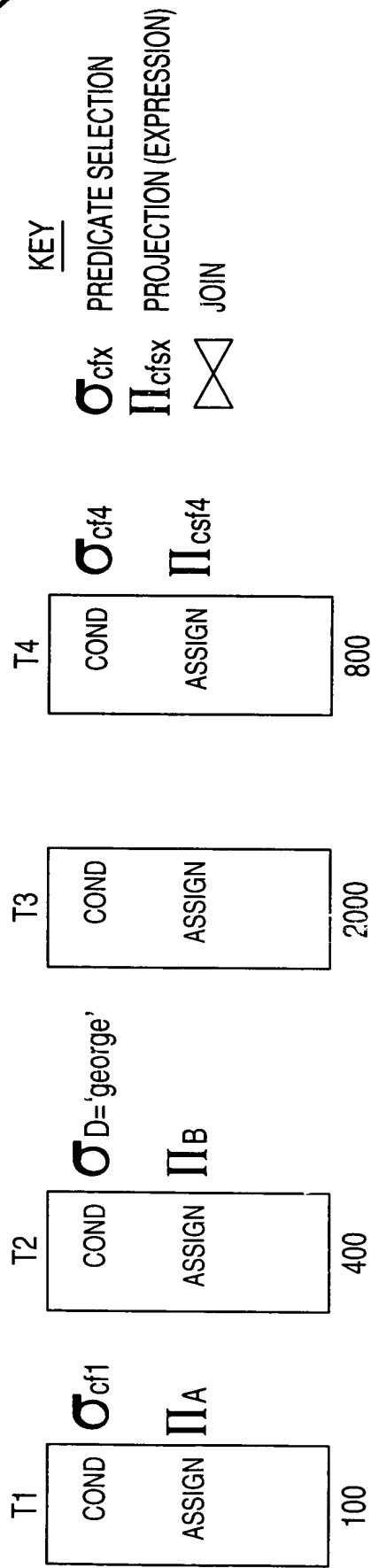
Select T1.A, T2.B, T4.Video Colorize() From T1, T2, T3, T4
Where T1.face = IMAGE(\url\myface.jpg) AND T2.D='george'
AND T4.Audio = AUDIO (\url\georgeharrison.wav)
AND T1.F=T2.F AND T2.G=T3.G AND T1.H=T4.H
AND T2.K=T4.K



T1.face=IMAGE(\url\myface.jpg)	σ_{cf1}
T4.Video.Colorize()	Π_{cf4}
T4.Audio=AUDIO (\url\georgeharrison.wav)	σ_{cf4}

10056880 .052802

FIG. 11

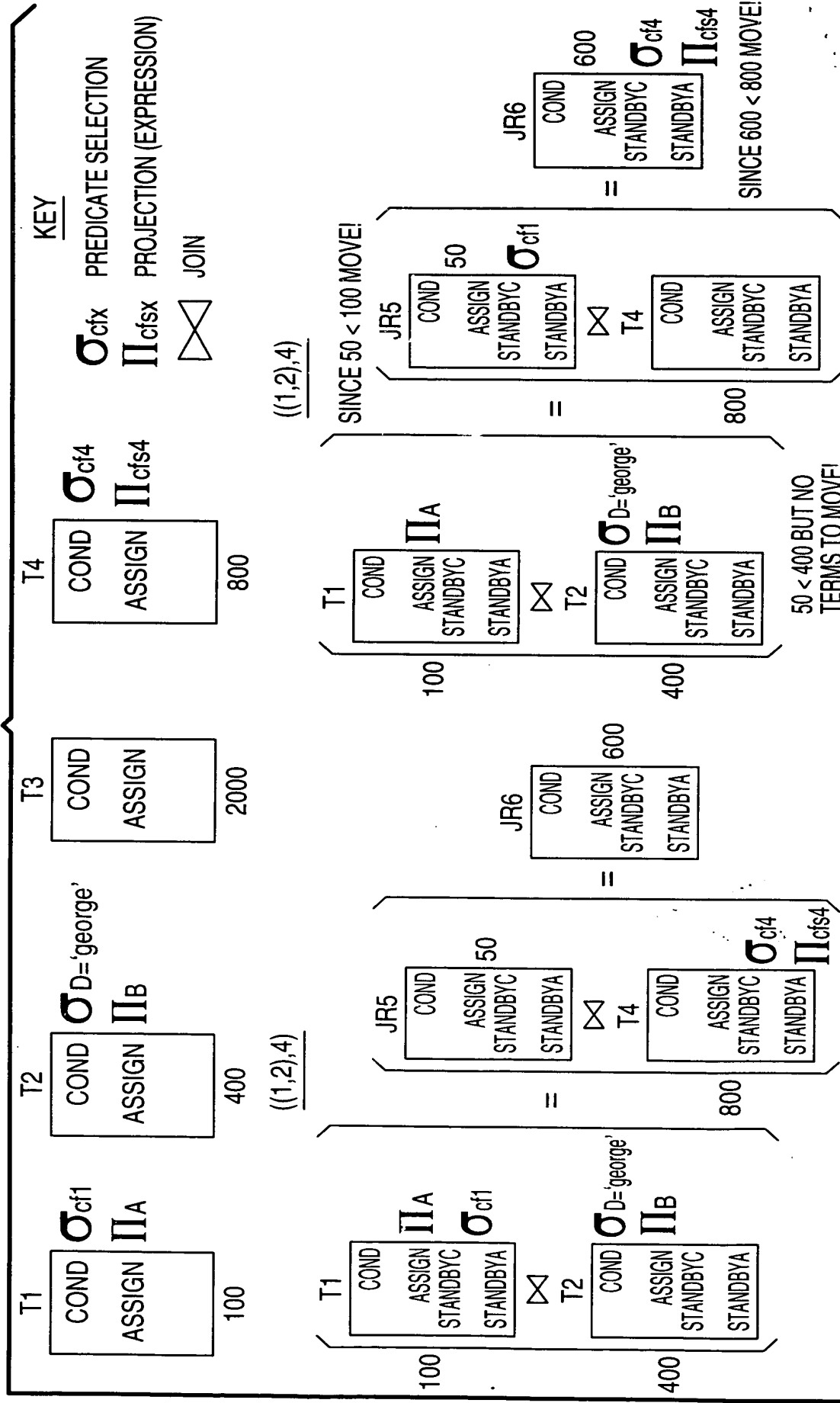


(EARLY ON WITHIN ACCESS PLANNING MODULE)

STEP 1: MOVE ALL COSTLY FUNCTIONS TO THEIR RESPECTIVE STANDBY LISTS

STEP 0: START

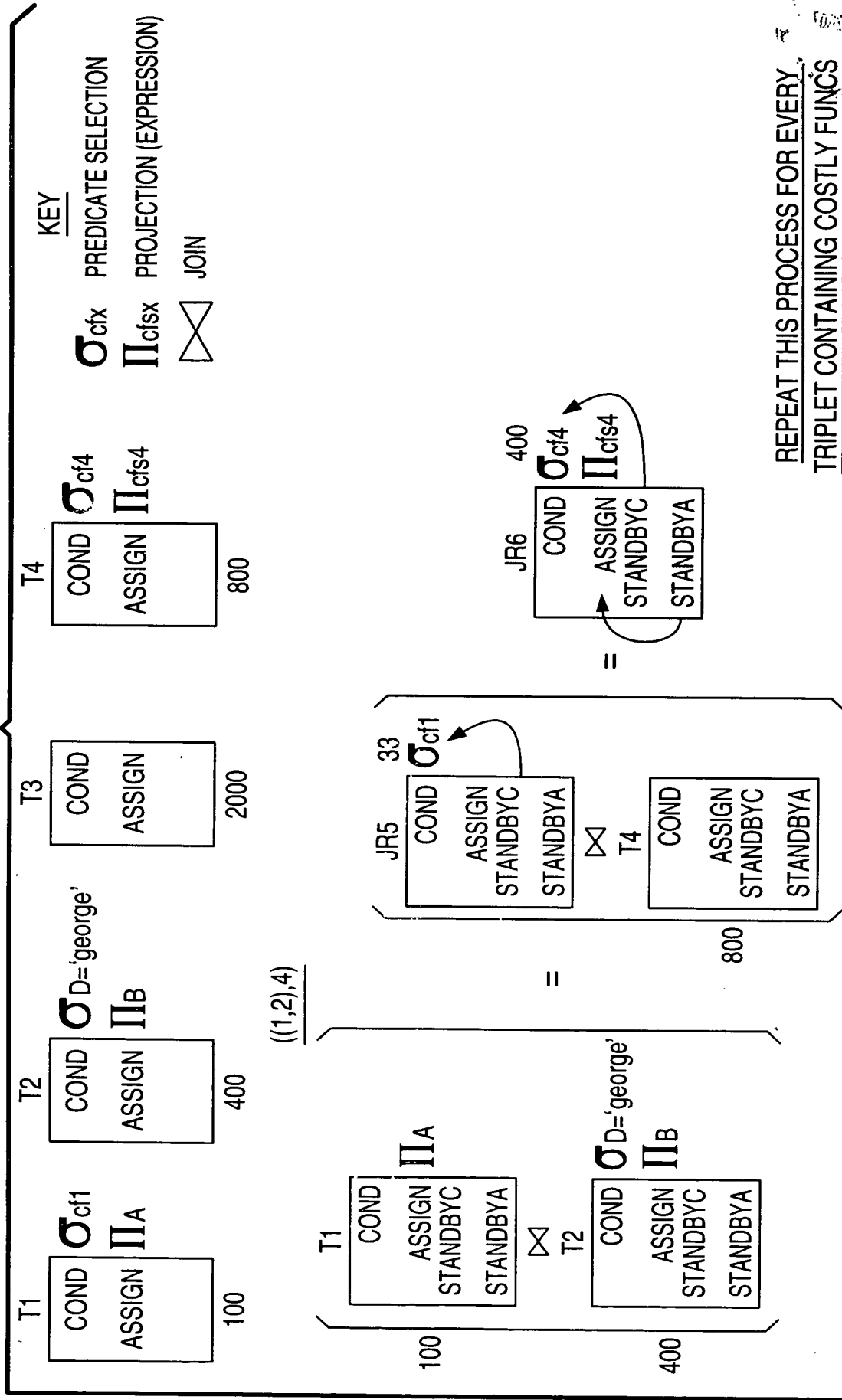
FIG. 12



STEP 2: CALCULATE ACCESS, JOIN COSTS
AND ALL CARDINALITIES AS CURRENTLY DONE
(IGNORING TERMS ON STANDBY)

TRIPLET COSTING WITHIN LOOKAHEAD MODULE)
STEP 3: EXAMINE CARDINALITIES FOR THE "TRIPLET" AND
MOVE COSTLY FUNCTIONS TOWARD LOWEST CARDINALITY

FIG. 13



STEP 4 :MOVE TERMS FROM STANDBY LISTS TO ACTIVE LISTS AND
CALCULATE NEW JOIN CARDINALITIES AND "TUNED" COST